

**Upper Sand Creek Basin
Contra Costa County Flood Control and Water Conservation District
Project Budget**

	(a)	(b)	(c)	(d)	(e)
Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	Percent Funding Match
(a) Direct Project Administration Costs	\$73,000			\$73,000	100%
(b) Land Purchase/Easement	\$215,000			\$215,000	100%
(c) Planning/Design/Engineering/Environmental Documentation	\$459,000			\$459,000	100%
(d) Construction/Implementation	\$8,400,000	\$2,000,000		\$10,400,000	81%
(e) Environmental Compliance/Mitigation/Enhancement	\$851,000			\$851,000	100%
(f) Construction Administration	\$1,020,000			\$1,020,000	100%
(g) Other Costs (Including Legal Costs, Permitting, and Licenses)	\$21,000			\$21,000	100%
(h) Construction/Implementation/Contingency	\$1,040,000			\$1,040,000	100%
(i) Grand Total (Sum rows (a) through (h) for each column)	\$12,079,000	\$2,000,000	\$0	\$14,129,000	86%
* All Non-State Share Funding will be provided by the Contra Costa County Flood Control and Water Conservation District from drainage fees.					

Project Budget

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Row (a) Costs: Task 1 - Project Administration

Project administration tasks will include overall project administration and management, development of a Labor Compliance Program, and project reporting (including reporting on project monitoring and assessment). Project administration costs are estimated to be approximately \$73,000, as shown in the following table.

Task No.	Description	Labor Costs			
		Discipline	Hourly Rate	Hours	Total Labor
1	Project Administration	Senior Engineer	\$210/hour	83	\$17,430
		Associate Engineer	\$185/hour	300	\$55,500
	TOTAL			383	\$72,930

Row (b) Costs: Task 2 - Land Purchase/Easement

Land purchase costs for this project will cover costs associated with securing additional right of way and permanent slope easements required for facility footprint. Costs include the following:

Cost associated with purchase of land: \$79,100

Item	Description of Land/Parcel	Number of Acres	Cost/Acre	Total Cost
1	APN 057-050-014	1.21	\$9,700	\$11,737
2	APN 057-050-005	6.94	\$9,700	\$67,318
	TOTAL	8.15		\$79,055

Cost associated with purchase of easements (50 percent of fee title): \$42,970

Item	Description of Land/Parcel	Number of Acres	Cost/Acre	Total Cost
1	APN 057-050-014	5.56	\$4,850	\$26,966
2	APN 057-050-005	3.30	\$4,850	\$16,005
	TOTAL	8.81		\$42,971

Labor costs: \$93,200

Task No.	Description	Labor Costs			
		Discipline	Hourly Rate	Hours	Total Labor
2	Land Purchase/Easement	Senior Engineer	\$210/hour	20	\$4,200
		Associate Engineer	\$185/hour	40	\$7,400
		Senior Real Property Agent	\$170/hour	480	\$81,600
	TOTAL			383	\$93,200

Total Costs Associated with Task 2: \$215,300

Row (c) Costs: Task 3 - Planning/Design/Environmental Documentation

Budget for this task is estimated to be \$405,000, and includes completing planning and design work, and securing all necessary approvals. Task-level budgets are summarized in further detail below.

Task 3.1 Planning: \$53,500

Task No.	Description	Labor Costs			
		Discipline	Hourly Rate	Hours	Total Labor
3.1	Planning/Design/ Environmental Documentation	Senior Engineer	\$210/hour	40	\$48,400
		Associate Engineer	\$185/hour	60	\$11,100
		Project Engineer	\$170/hour	200	\$34,000
	TOTAL			383	\$53,500

Task 3.2 Design: \$305,350

Task No.	Description	Labor Costs			
		Discipline	Hourly Rate	Hours	Total Labor
3.2.1	10% Design	Senior Engineer	\$210/hour	40	\$48,400
		Associate Engineer	\$185/hour	80	\$11,100
		Project Engineer	\$170/hour	120	\$34,000
Subtotal					\$43,600
3.2.2	30% Design	Senior Engineer	\$210/hour	40	\$8,400
		Associate Engineer	\$185/hour	130	\$24,050
		Project Engineer	\$170/hour	200	\$34,000
Subtotal					\$66,450
3.2.3	60% Design	Senior Engineer	\$210/hour	60	\$12,600
		Associate Engineer	\$185/hour	130	\$24,050
		Project Engineer	\$170/hour	200	\$34,000
Subtotal					\$70,650
3.2.4	90% Design	Senior Engineer	\$210/hour	60	\$12,600
		Associate Engineer	\$185/hour	100	\$18,500
		Project Engineer	\$170/hour	200	\$34,000
Subtotal					\$65,100
3.2.5	Final Design	Senior Engineer	\$210/hour	20	\$4,200
		Associate Engineer	\$185/hour	120	\$22,200
		Project Engineer	\$170/hour	195	\$33,150
Subtotal					\$59,550
TOTAL Design Costs					\$305,350

Task 3.3 Environmental Documentation: \$49,750

Task No.	Description	Labor Costs			
		Discipline	Hourly Rate	Hours	Total Labor
3.3	CEQA	Senior Environmental Specialist	\$190/hour	100	\$19,000
		Environmental Specialist	\$150/hour	205	\$30,750
	TOTAL			383	\$49,750

Task 3.4 Permitting: \$49,750

Task No.	Description	Labor Costs			
		Discipline	Hourly Rate	Hours	Total Labor
3.4	Permitting	Senior Environmental Specialist	\$190/hour	100	\$19,000
		Environmental Specialist	\$150/hour	206	\$30,900
	TOTAL			383	\$49,750

Total Costs Associated with Task 3: \$459,000

Row (d) Costs: Task 4 - Construction/Implementation

The construction budget will cover contracting, mobilization and sitework, and construction-related costs. Estimated costs are provided in the table below. Construction contracting costs have been included in the line item budget for Construction Administration.

Task No.	Subtask No.	Description	Unit	Unit Cost	Quantity	Total
4.1	Budget Included in Construction Administration Line Item					
4.2	4.2.1	Traffic Control	LS	\$15,000	1	\$15,000
	4.2.2	Mobilization	LS	\$200,000	1	\$200,000
	4.2.3	Clear and Grub	LS	\$20,000	1	\$20,000
	4.2.4	Excavation Safety Plan	LS	\$5,000	1	\$5,000
	4.2.5	Construction Area Signs	LS	\$3,000	1	\$3,000
	4.2.6	Storm Water Pollution Prevention Plan	LS	\$30,000	1	\$30,000
	4.2.7	Control of Water	LS	\$20,000	1	\$20,000
Subtotal						\$293,000

Task No.	Subtask No.	Description	Unit	Unit Cost	Quantity	Total
4.2	4.2.1	Erosion Control	AC	\$5,324	61	\$324,764
	4.2.2	Basin Excavation (Build Dam)	CY	\$2	105,000	\$210,000
	4.2.3	Basin Excavation (placed on adjacent properties)	CY	\$2	40,000	\$80,000
	4.2.4	Basin Excavation (offsite disposal)	CY	\$10	610,000	\$6,100,000
	4.2.5	Dam Embankment Over Excavation	CY	\$3.50	1,100	\$3,850
	4.2.6	Dam Embankment Foundation Preparation	SY	\$1.16	24,380	\$28,281
	4.2.7	Dam Embankment	CY	\$7	105,000	\$735,000
	4.2.8	Channel Excavation (low flow channel)	CY	\$8	6,400	\$51,200
	4.2.9	Channel Fill (low flow channel)	CY	\$10	6,400	\$64,000
	4.2.10	Basin Inlet Structure (energy dissipater and stilling basin)	LS	\$600,000	1	\$600,000
	4.2.11	Basin Inlet Structure (twin 84")	LS	\$75,000	1	\$75,000
	4.2.12	Primary Spillway Trash Rack, Headwall, and Sluice Gate	LS	\$83,400	1	\$83,400
	4.2.13	Primary Spillway (60" RCP-Class V, including concrete)	LF	\$1,300	400	\$520,000
	4.2.14	Primary Spillway Discharge Structure and Energy Dissipater	CY	\$440	190	\$83,600
	4.2.15	Primary Spillway RSP	TON	\$130	100	\$13,000
	4.2.16	County Standard CD50i outfalls/ downdrains	EA	\$5,000	6	\$30,000
	4.2.17	Emergency Spillway Concrete	LS	\$795,000	1	\$795,000
	4.2.18	Perimeter Road (20' wide, 1' aggregate base)	CY	\$44	5,533	\$243,452
	4.2.19	Perimeter Fence	LF	\$20	5,800	\$116,000
Subtotal						\$10,156,547
TOTAL						\$10,449,547

Total Costs Associated with Task 4: \$10,450,000

Row (e) Costs: Task 5 - Environmental Compliance/Mitigation/Enhancement

This budget, estimated at \$851,000, covers all environmental mitigation needed to offset potential impacts of project implementation. Additional detail follows.

Task No.	Description	Task Costs				
		Description	Unit	Unit Cost	Quantity	Total Labor
5.1	Permitting	Principal Environmental Scientist	Hours	\$200/hour	56	\$11,200
		Associate Project Biologist	Hours	\$160/hour	110	\$17,600
		Project Biologist	Hours	\$140/hour	180	\$25,200
Subtotal						\$54,000
5.2	Site Preparation	Fine Grading	LS	\$23,000	1	\$23,000
		Mulching	LS	\$17,000	1	\$17,000
Subtotal						\$35,000
5.3	Planting	Plant – Plug	EA	\$2	7500	\$15,000
		Plant – 1 Gallon Pot	EA	\$10	500	\$5,000
		Plant – Boxed Tree	EA	\$500	30	\$15,000
Subtotal						\$35,000
5.4	Long-Term Maintenance	Maintenance Worker II	Hours	\$100	650	\$65,000
		Associate Project Biologist	Hours	\$160	40	\$6,400
		Principal Environmental Scientist	Hours	\$200	18	\$3,600
Subtotal						\$75,000
5.5	HCP Fees	Fees	LS	\$647,000	1	\$647,000
Subtotal						\$647,000
TOTAL						\$851,000

Total Costs Associated with Task 5: \$851,000

Row (f) Costs: Task 6 - Construction Administration

Construction administration will include all construction administration activities, including advertisement for bids, bidding, contract award, insurance confirmation and tracking, submittal review and tracking, invoice review and payment, schedule maintenance, and contract closeout. Construction administration costs were assumed to be approximately 9.8 percent of construction costs, based on

experience completing similar projects. Construction administration costs are estimated to be \$1,020,240.

Total Costs Associated with Task 6: \$1,020,000

Row (g) Costs: Task 7 Other Costs

Other costs include fees charged by the Division of Safety of Dams for review of project plans. These fees are expected to total \$21,000.

Total Costs Associated with Task 7: \$21,000

Row (h) Costs: Construction/Implementation Contingency

A ten percent construction contingency has been added for this project, for a total of \$1,040,000. Ten percent was identified as a reasonable contingency based on the expected accuracy of the cost estimate and experience with similar projects.

Total Costs Associated with Construction/Implementation Contingency: \$1,040,000

Project Totals

The total estimated cost of this project is \$14,129,000. The project will be funded through the following mechanisms:

- \$12,079,000 in non-State funding (funding match) from drainage area fees
- \$2,000,000 in requested grant funding
- \$0 in other State funding